BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of the work: **Estimate for Improvements and asphalting to Kodigehally enclave roads in Ward no 09 of Vidyaranyapura Sub Division**

							Estimate Cost:		2000000.00
Sl.No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. **Page No. 138 / Item No. 19.1/ PWD SR 2014-15**	Cum							
	Drain Desilting		2	270.00	0.45	0.40	97.20		
			2	150.00	0.45	0.35	47.25		
			2	120.00	0.45	0.45	48.60		
			2	115.00	0.45	0.45	46.58		
	Berm Cutting		2	270.00	1.45	0.25	195.75		
			2	150.00	1.50	0.30	135.00		
			2	120.00	1.45	0.25	87.00		
			2	115.00	1.50	0.20	69.00		
	Basic Rate	70.00					**726.38**	75.60	**54914.00**
	Area Weightage @8%	5.60							
	Total	**75.60**	✓						
2	KSRRB 500-3: Scarifying existing stone metal layer upto 75mm thick along with their bituminous surface, picking up scarified materials and stacking of old serviceable materials with lead of 100m, sequential spreading of the salvaged aggregates with fresh aggregates on prepared base and consolidating as per water bound macadam specifications including cost of all labour, HOM of machineries complete as per specifications. MORTH chapter 5, **No. 157 / Item No. 21.3 / PWD SR 2014-15**	Sqm							
			2	270.00	1.50		810.00		
			2	150.00	1.65		495.00		
			2	120.00	1.50		360.00		
			2	115.00	1.25		287.50		
	Basic Rate	76.80					**1952.50**	82.94	**161948.00**
	Area Weightage @ 8%	6.14							
	Total	**82.94**	✓						
3	Providing, laying, spreading and compacting graded stone aggregate to **wet mix macadam** specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications **Page No. 154 / Item No. 20.18 PWD SR - 2014-15.**	Cum							
			2	270.00	1.50	0.20	162.00		
			2	150.00	1.65	0.20	99.00		

Sl.No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
			2	120.00	1.50	0.20	72.00		
			2	115.00	1.25	0.15	43.13		
							376.13	1438.56	**541078.00**
	Basic Rate	1332.00							
	Area Weightage @ 8%	106.56							
	Total	**1438.56**							
4	KSRRB 500-1.1 : **Cleaning the existing WBM** road surface including removing of binding materials and other foreign matter with wire bushes and small picks, sweeping with brooms or soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries, curing complete as per specifications. Specification No. 500-1.3 **P. 157 / I. 21.1 PWDSR 2014-15**	Sqm							
			1	270.00	5.30		1431.00		
			1	150.00	5.50		825.00		
			1	120.00	5.50		660.00		
			1	115.00	5.50		632.50		
							3548.50	12.20	**43306.00**
	Basic Rate	11.30							
	Area Weightage @ 8%	0.90							
	Total	**12.20**							
5	KSRRB 500-7: Providing and applying **tack coat using 80/100 grade bitumen (VG10)** on the prepared black topped surfaces at 2.5kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding clearing of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH chapter 5, **No. 157 / Item No. 21.7 / PWD SR 2014-15**	Sqm							
			Qty Vide Item No. 04				**3548.50**	18.74	**66492.00**
	Basic Rate	17.35							
	Area Weightage @ 8%	1.39							
	Total	**18.74**							
6	KSRRB M500-18: Providing and laying **semi dense bituminous concrete** using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem roller to achieve the desired compaction as per MORTH specifications clause No. 508 complete in all respects as per specifications. **using 100-120 TPH capacity H.M.P with sensor paver grading II (25-30mm) with 5% CRMB-55 grade, No. 160 / Item No. 21.21.2 / PWD SR 2014-15**	Cum							
			1	270.00	5.30	0.025	35.78		
			1	150.00	5.50	0.025	20.63		
			1	120.00	5.50	0.025	16.50		
			1	115.00	5.50	0.025	15.81		
							88.71		
	Add 8% for depression filling						**7.10**		
							95.81	11070.00	**1060611.00**
	Basic Rate	10250.00							

Sl.No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Area Weightage @ 8%	820.00							
	Total	**11070.00**							
7	Lead for Disposal of Debris shall be payable at carriage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 2.00 Km (Page No.123)	Cum							
			Vide Item No. 1				**690.06**	73.57	**50767.00**
	Average weight of earth 1.28 tonne / kg for 2x1.28x2.00=5.12	5.12							
	Add loading and unloading charges Vide item no.17.1 P.no.130	63.00							
		68.12							
	Area Weightage @ 8%	5.45							
	Total	**73.57**							
8	Sub Total								**1979116.00**
9	For Third Part QC inspection Charges @ 1%								**19791.00**
10	Miscellaneous and other Charges	L/S							**1093.00**
								Total	**2000000.00**
	(Rs. Twenty Lakhs Only)								

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2014-15.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer

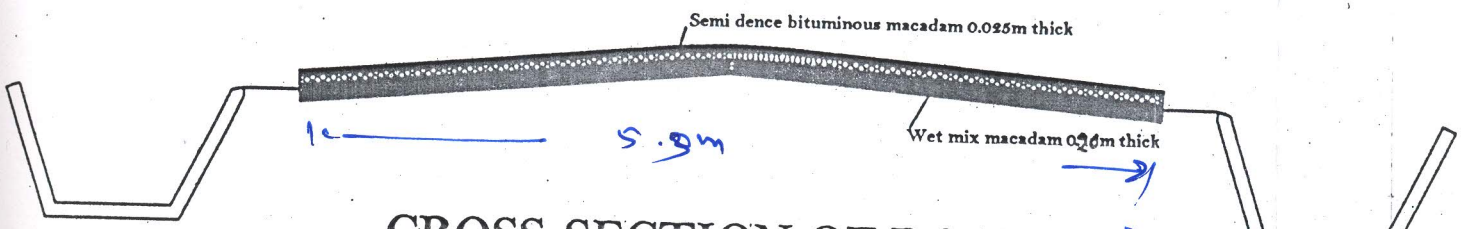
Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidayranyapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

Bangalore - 560 092

Technical Sanction for Rs. 2000000=00
Administrative Approval Accorded for Rs 20.00 lakhs
Twenty lakhs only
is accorded under head P-2415
registered as CE No. 108 Dt: 19.01.15 Subject
to Conditions contained in enclosed memo
No: 303/14-15 Dt: 19.01.15
No...../.....Dr.....
AE/JE TA SE (BTP) CE (BTP)
19/01
AE/JE

(CYNK)



CROSS-SECTION OF ROAD

INDEX

- Wet mix macadam
- Semi dence bituminous concret

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97